



IN THE

UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANTS: Paul C. Kocher et al.
SERIAL NO.: 09/930,836
FILING DATE: August 15, 2001
TITLE: CRYPTOGRAPHIC COMPUTATION USING MASKING TO
PREVENT DIFFERENTIAL POWER ANALYSIS AND OTHER
ATTACKS
EXAMINER: Darrow, Justin T.
GROUP ART UNIT: 2132
ATTY. DKT. NO.: 44424162-8724

CERTIFICATE OF MAILING

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Dated: Sept 10, 2004

By: Michael C. Martensen
Michael C. Martensen, Reg. No. 46,901

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The Commissioner is authorized to charge any fees required in connection with the submission of this IDS to deposit account number 19-3140. This sheet is being submitted in duplicate.

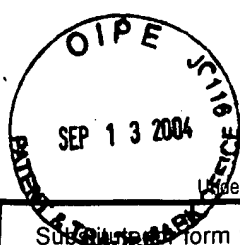
Respectfully submitted,

Sept 10, 2004


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enclosures



Substitute Form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 1 of 4

Complete if Known

Application Number	09/930,836
Filing Date	August 15, 2001
First Named Inventor	Paul C. Kocher
Group Art Unit	2132
Examiner Name	Darrow, Justin T.
Attorney Docket Number	44424162-8724

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
	AA	US-4,200,770	04/29/1980	Hellman et al.	
	AB	US-4,203,166	05/13/1980	Ehrsam et al.	
	AC	US-4,211,919	07/08/1980	Ugon	
	AD	US-4,214,126	07/22/1980	Wipff	
	AE	US-4,243,890	01/06/1981	Miller et al.	
	AF	US-4,405,829	09/20/1983	Rivest et al.	
	AG	US-4,759,063	07/19/1988	Chaum	
	AH	US-4,905,176	02/27/1990	Schulz	
	AI	US-5,136,643	08/04/1992	Fischer	
	AJ	US-5,241,598	08/31/1993	Raith	
	AK	US-5,297,201	03/22/1994	Dunlavy	
	AL	US-5,341,423	08/23/1994	Nossen	
	AM	US-5,369,706	11/29/1994	Latka	
	AN	US-5,404,402	04/04/1995	Sprunk	
	AO	US-5,412,379	05/02/1995	Waraska et al.	
	AP	US-5,539,827	07/23/1996	Liu	
	AQ	US-5,544,086	08/06/1996	Davis et al.	
	AR	US-5,546,463	08/13/1996	Caputo et al.	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				
	AS	EP 0 529 261 A2	03/03/1993	IBM Corp.		<input type="checkbox"/>
	AT	EP 0 582 395 A2	02/09/1994	Digital Equipment Corp.		<input type="checkbox"/>
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Substituted Form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>			Complete if Known	
			Application Number	09/930,836
			Filing Date	August 15, 2001
			First Named Inventor	Paul C. Kocher
			Group Art Unit	2132
			Examiner Name	Darrow, Justin T.
			Attorney Docket Number	44424162-8724
Sheet	2	of 4		

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		Number-Kind Code ² (if known)			
	AU	US-5,552,776	09/03/1996	Wade et al.	
	AV	US-5,559,887	09/24/1996	Davis et al.	
	AW	US-5,600,324	02/04/1997	Reed et al.	
	AX	US-5,633,930	05/27/1997	Davis et al.	
	AY	US-5,663,896	09/02/1997	Aucsmith	
	AZ	US-5,733,047	03/31/1998	Furuta et al.	
	BA	US-5,761,306	06/02/1998	Lewis	
	BB	US-5,778,065	07/07/1998	Hauser et al.	
	BC	US-5,848,159	12/08/1998	Collins et al.	
	BD	US-5,991,415	11/23/1999	Shamir	
	BE	US-5,995,629	11/30/1999	Reiner	
	BF	US-6,041,122	03/31/2000	Graunke et al.	
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Examiner Initials*	Cite No. ¹	Foreign Patent Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
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				Application Number	09/930,836
				Filing Date	August 15, 2001
				First Named Inventor	Paul C. Kocher
				Group Art Unit	2132
				Examiner Name	Darrow, Justin T.
Sheet	3	of	4	Attorney Docket Number	44424162-8724

OTHER ITEMS – NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	B G	BELLARE et al., "Incremental Cryptography: The Case of Hashing and Signing" in: DESMEDT, Y., Advances in Cryptology - Crypto '96 (Berlin, Springer, 1996), pp. 104-113	
	B H	MENZES et al., "Handbook of Applied Cryptography" (CRC Press, 1996), pages including 285-298, 312-319, 452-462, 475, 512-524	
	B I	Bank Technology News. "Cries of Wolf Over Smart Card Security?" Faulkner & Gray, Inc. 01 November 1996	
	B J	American National Standards for Financial Services, secretariat - American Bankers Association (ANS/ABA x9.24-1997), "Financial Services Key Management," approved April 6, 1992, American National Standards Institute; pgs. 1-71	
	B K	JUENEMAN, Robert R., "Analysis of Certain Aspects of Output Feedback Mode", Satellite Business Systems, 1998; pgs. 99-127	
	B L	BAUER, Friedrich L., "Cryptology - Methods and Maxims", Technical University Munich, 1998; pgs. 31-48	
	B M	CONNOR, Doug (Technical Editor), "Cryptographic Techniques - Secure Your Wireless Designs", 01/18/96; pgs. 57-68	
	B N	HORNAUER et al., "Markov Ciphers and Alternating Groups," Eurocrypt 91, 1991; pgs. 453-460	

Examiner Signature		Date Considered	
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Sheet	4	of	4	Attorney Docket Number	44424162-8724

OTHER ITEMS – NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²
	B O	KOBLITZ, "A Course in Number Theory and Cryptography" 2e, 1994, Chapter III; pgs. 53-77	
	B P	LAI et al., "Markov Ciphers and Differential Cryptanalysis," Eurocrypt 91, 1991; pgs. 17-38	
	B Q	HACHEZ et. al. "Timing Attack: What Can Be Achieved By A Powerful Adversary?" 1999	
	B R	KOCHER, Paul C., "Cryptanalysis of Diffie-Hellman, RSA, DSS, and Other Systems Using Timing Attacks," Report 7 December 1995; pgs. 1-6	
	B S	KALISKI, Burt, "Timing Attacks on Cryptosystem," RSA Laboratories, Bulletin, Number 2, January 23, 1996	

Examiner Signature		Date Considered	
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